

101.612-12 – including *Taq* polymerase

101.612-12u – without *Taq* polymerase

Lot No.: **42Y**

## **Olerup SSP<sup>®</sup> HLA-C\*04**

**Product number:** 101.612-12 – including *Taq* polymerase  
101.612-12u – without *Taq* polymerase

**Lot number:** 42Y

**Expiry date:** 2017-November-01

**Number of tests:** 12

**Number of wells per test:** 56+1

### **CHANGES COMPARED TO THE PREVIOUS HLA-C\*04 LOT (67X):**

<b>Well</b>	<b>5'-primer</b>	<b>3'-primer</b>	<b>rationale</b>
2	Added	-	5'-primers added for the C*04:01:63 and C*04:01:65 alleles.
3	Added	-	5'-primers added for the C*04:01:63 and C*04:01:65 alleles.
15	Moved	Moved	Primer pair moved to well 56.
16	Modified	-	5'-primer modified for improved HLA-specific amplification.
43	-	Moved	3'-primer moved to well 54.
53	Added	Added	Negative Control moved to well 57, primer pair added for the C*04:106 allele.
54	Added	Added	Primer pair added from well 43.
55	New	New	New primer pair added for the C*04:191N allele.
56	Added	Added	Primer pair added from well 15.
57	-	-	Negative Control added from well 53.

**THE NUMBER OF WELLS** is increased from 53 to 57 wells.

### **ALLELE COVERAGE:**

C\*04:01 to C\*04:194, i.e. all the currently recognized HLA-C\*04 alleles, will be amplified by the primers in the HLA-C\*04 kit <sup>1,2</sup>; [www.ebi.ac.uk/imgt/hla](http://www.ebi.ac.uk/imgt/hla), 2015-January-19, release 3.19.0.

The HLA-C\*04 kit enables separation of the confirmed HLA-C\*04 alleles as listed in the IMGT/HLA database. An HLA allele is listed as confirmed by IMGT/HLA if it has been sequenced by more than a single laboratory or from multiple sources.

The HLA-C\*04 kit also enables identification of polymorphisms in exons outside of the region encoding the peptide binding domain and of null and alternatively expressed alleles.

101.612-12 – including *Taq* polymerase

101.612-12u – without *Taq* polymerase

Lot No.: **42Y**

The following HLA-C\*04 alleles can be distinguished by the different sizes of the HLA-specific PCR product:

Alleles	Primer mix	Alleles	Primer mix
C*04:05, 04:112	6	C*04:61, 04:96	34
C*04:23, 04:38, 04:39	21	C*04:62, 04:76	35
C*04:25, 04:40, 04:41	23	C*04:65, 04:72	33
C*04:44, 04:47	20	C*04:67, 04:93N	46
C*04:46, 04:50	27	C*04:79, 04:113	39
C*04:48, 04:75	28	C*04:81, 04:88N	43
C*04:54, 04:105N	41	C*04:114, 04:146	47
C*04:56, 04:64:01-04:64:02	40	C*04:150, 04:155	52
C*04:59Q, 04:78	32		

The HLA-C\*04 primer set cannot distinguish the following silent mutations: the C\*04:01:01-04:01:09, 04:01:11-04:01:22, 04:01:24-04:01:27, 04:01:29-04:01:33 and 04:01:35-04:01:66 alleles, the C\*04:01:10 and 04:01:23 alleles, the C\*04:03:01-04:03:02 alleles, the C\*04:04:01-04:04:02 alleles, the C\*04:15:01 and 04:15:03 alleles, the C\*04:42:01-04:42:02 alleles, the C\*04:64:01-04:64:02 and the C\*04:94:01-04:94:02 alleles.

<sup>1</sup>Alleles that have been deleted from or renamed in the official WHO HLA Nomenclature up to and including the last IMGT/HLA database release can be retrieved from web page

<http://hla.alleles.org/alleles/deleted.html>.

<sup>2</sup>The HLA-C\*04 primer set cannot separate the C\*04:03:01-04:03:02, 04:190 and 02:49 alleles or the C\*04:107 and the C\*02:12 and 02:55 alleles. These alleles can be distinguished by the HLA-C low resolution kit and/or the HLA-C\*02 high resolution kit.

**RESOLUTION IN HLA-C\*04 HOMO- AND HETEROZYGOTES:**

Good.

**INFLUENCE ON THE INTERPRETATION OF HLA-C\*04 SUBTYPINGS BY NON-HLA-C\*04 ALLELES:**

None frequently occurring.

**MODIFICATIONS MADE DUE TO COMMENTS FROM CUSTOMERS:**

No comments received.